

AMENDMENTS TO THE CLAIMS

Upon entry of the amendment, the status of the claims will be as shown below. This listing of claims replaces all previous versions and listings of claims in the present patent application.

Listing of Claims

1. – 9. (Cancelled)

10. (New) A method for constituting and transmitting an Internet Streaming Media Alliance (ISMA) media stream, subjected to MPEG-4 Intellectual Property Management and Protection (IPMP) extension, by a transmitting device including an encoder and a transmitter, the method comprising:

constituting, by the encoder, an ISMA media stream having an ISMA header and including contents as a payload,

wherein the ISMA media stream includes a plurality of payloads,

wherein the header of the ISMA media stream includes an IPMP tool list descriptor and a plurality of IPMP descriptors, where each IPMP descriptor corresponds to one of the plurality of payloads,

wherein at least one IPMP descriptor is different from another IPMP descriptor of the plurality of IPMP descriptors,

wherein the IPMP tool list descriptor, representing as a tool required for processing of the contents, at least one tool selected from a group including an IPMP tool, an

ISMA Cryp decryption tool, and a key management system (KMS) tool, is buried in the ISMA media stream, and

wherein the IPMP tool may be specified in a plurality of ways, including by using a fixed bit length IPMP tool ID, by using a list of IPMP tool IDs representing equivalent alternative tools, and by specifying standards that must be satisfied by the IPMP tool; and transmitting, by the transmitter, the ISMA media stream over a network to a receiver.

11. (New) The method according to claim 10, wherein the IPMP tool list descriptor is buried in an Initial Object Descriptor (IOD) of the ISMA media stream.

12. (New) A method for constituting and transmitting an Internet Streaming Media Alliance (ISMA) media stream, subjected to MPEG-4 Intellectual Property Management and Protection (IPMP) extension, by a transmitting device including an encoder and a transmitter, the method comprising:

constituting, by an encoder, an ISMA media stream having an ISMA header and including contents as a payload,

wherein the ISMA media stream includes a plurality of payloads,

wherein the header of the ISMA media stream includes an IPMP tool list descriptor and a plurality of IPMP descriptors, where each IPMP descriptor corresponds to one of the plurality of payloads,

wherein at least one IPMP descriptor is different from another IPMP descriptor of the plurality of IPMP descriptors,

wherein at least one IPMP descriptor of the plurality of IPMP descriptors, representing as a tool required for processing of the contents, at least one tool selected from a group including an IPMP tool, an ISMA Cryp decryption tool, and a key management system (KMS) tool, is buried in the media stream, and

wherein the IPMP tool may be specified in a plurality of ways, including by using a fixed bit length IPMP tool ID, by using a list of IPMP tool IDs representing equivalent alternative tools, and by specifying standards that must be satisfied by the IPMP tool; and transmitting, by the transmitter, the ISMA media stream over a network to a receiver.

13. (New) The method according to claim 12, wherein an IPMP descriptor pointer indicating at least one of the plurality of IPMP descriptors is buried in the ISMA media stream.

14. (New) The method according to claim 12, wherein an IPMP descriptor pointer is buried in an Elementary Stream (ES) descriptor of the ISMA media stream.

15. (New) The method according to claims 12, wherein the IPMP tool list descriptor representing at least one tool is buried in the ISMA media stream independently of the IPMP descriptor.

16. (New) The method according to claim 10, wherein an ISMA Cryp parameter used in the ISMA Cryp decryption tool is stored in ISMA Cryp_Data extended from IPMP_Data_Base Class.

17. (New) The method according to claim 16, wherein the ISMA Cryp_Data is stored in an IPMP descriptor stored in an Object Descriptor (OD) of the IPMP media stream.

18. (New) The method according to claim 16, wherein the ISMA Cryp_Data is stored in an IPMP_Message stored in the IPMP media stream.